

Notice of Allowability

Application No.

10/718,918

Examiner

Jean B Corielus

Applicant(s)

WIECK, CHRISTOPHER P.

Art Unit

2637

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 12/6/04.
2. ☒ The allowed claim(s) is/are 1-8,10-12,15 and 16,renumbered as 1-13, respectively.
3. ☒ The drawings filed on 21 November 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).


* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


Jean B Corielus
Primary Examiner
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3/31/05

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Steven Freeland on 3/29/05.

The application has been amended as follows:

IN THE SPECIFICATION:

Page 1, line 5, after 2000, --now US Patent No. 6,668,028-- has been inserted.

Page 1, line 13, after 2000, --now US Patent No. 6,668,028,-- has been inserted.

IN THE CLAIMS:

Claim 9 has been canceled.

Claims 7, 8 and 15 have been amended as follow:

Claim 7 (Amended): The method of claim 4, further comprising: switching out the amplifying according to [a] the first adjustable bias level such that the first internal signal [received by the mixer] mixed with the intermediate frequency signal is the received input signal when the detected signal meets a threshold.

Claim 8 (Amended): An apparatus for use in radio frequency communication, comprising:

a first amplifier receiving an input signal comprising at least one cellular signal at a first frequency and jamming signals received with the cellular signal, wherein the first amplifier has an adjustable bias level to amplify the input signal into a first internal signal;

at least one mixer having an adjustable bias level, wherein the mixer receives the first internal signal and mixes the first internal signal to a second internal signal at an intermediate frequency;

at least one detector configured to receive a signal proportional to a signal strength of the received input signal including signal strengths of the cellular signal and jamming signals received with the cellular signal, wherein the at least one detector generates a bias control signal according to a detected signal level and jamming signal levels;

[and] a first bias generator configured to receive the bias control signal and generate according thereto a bias level applied to at least the first amplifier to define the adjustable bias level of the first amplifier wherein the bias level increases as the detected signal level increases; and

wherein the signal received by the at least one detector is proportional to the received cellular signal and any jamming signals prior to band limiting the received cellular and jamming signals.

Claim 15 (Currently Amended): An apparatus for use in receiving radio frequency signals comprising:

means for receiving an input signal that includes data signal and jamming signals;

means for amplifying the input signal according to a first adjustable bias level and producing a first internal signal;

means for down converting the first internal signal to produce a second internal signal;

means for detecting a level of a signal that is proportional to a level of the input signal [with both the data and jamming signal] prior to band limiting such that the level of the detected signal is proportional to a level of the data signal and the jamming signals;

means for generating a bias control signal that is dependent on the level of the detected signal ;

means for generating an adjusted bias signal supplied to the means for amplifying to adjust the first bias level of the means for amplifying;

wherein the means for generating an adjusted bias signal generates the adjusted bias signals to at least in part compensate for the jamming signal; and

wherein the means for generating the first bias level increases the first bias level as the detected signal level increases.

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Claim 16, line 1, "method" has been replaced by --apparatus--.

2. The following is an examiner's statement of reasons for allowance: a method and apparatus are disclosed. The closest prior art Satoshi Mogi JP409107288A and Cho US Patent No. 6,208,849. discloses the invention substantially as claimed. However, in combination with the other claimed limitations, Satoshi Mogi and Cho et al do not teach or fairly suggest the limitation of "detecting a level of a signal that is proportional to a level of the input signal prior to band limiting such that the level of the detected signal is proportional to a level of the data signal and the jamming signals", as recited in claims 1, 8 and 15.


Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean B Corrielus whose telephone number is 571-272-3020. The examiner can normally be reached on Maxi-Flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571-272-3086. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Jean B Corrielus
Primary Examiner
Art Unit 2637

3/31/05